

Please add the following claims:

17. (New) The implant of claim 16, wherein the at least two bone fragments comprise a first bone fragment with a first coupling portion and a second bone fragment with a second coupling portion, and wherein the first and second bone fragments are joined together by interfitting the first and second coupling portions.

18. (New) The implant of claim 16, further comprising at least one of bone material and bone-growth inducing substance disposed in the hollow region.

19. (New) The implant of claim 16, further comprising cancellous bone with a fluid concentrated therein, wherein the cancellous bone is disposed in the hollow region.

a⁴
20. (New) The implant of claim 16, wherein the bone tissue of at least one bone fragment is partially demineralized or demineralized.

21. (New) The implant of claim 16, wherein at least one of the bone fragments is at least partially dehydrated to mate with another bone fragment.

22. (New) The implant of claim 16, further comprising a region sized to receive a surgical instrument for facilitating implantation of the implant.

23. (New) The implant of claim 16, further comprising an outer surface with a contour conforming in shape with the end plates of vertebrae.

24. (New) The implant of claim 1, further comprising an outer surface with a contour conforming in shape with the end plates of vertebrae.

25. (New) The implant of claim 1, further comprising an outer surface with a wedge-shaped profile.

26. (New) The implant of claim 1, further comprising a region sized to receive a surgical instrument for facilitating implantation of the implant.

27. (New) A bone fusion implant for repair or replacement of bone comprising:

a substantially enclosed hollow interior space formed between at least two bone fragments which are configured and dimensioned for mutual engagement and which are coupled together; and

an outer surface conforming in shape with the end plates of vertebrae and having at least one migration resistant feature thereon.

28. (New) The implant of claim 27, wherein the at least one migration resistant feature comprises teeth.

a4
29. (New) The implant of claim 27, wherein the at least two bone fragments comprise a first bone fragment with a first coupling portion and a second bone fragment with a second coupling portion, and wherein the first and second bone fragments are joined together by interfitting the first and second coupling portions.

30. (New) The implant of claim 27, further comprising at least one of bone material and bone-growth inducing substance disposed in the interior space.

31. (New) The implant of claim 27, further comprising cancellous bone with a fluid concentrated therein, wherein the cancellous bone is disposed in the interior space.

32. (New) The implant of claim 27, wherein the bone tissue of at least one of the bone fragments is partially demineralized or demineralized.

33. (New) The implant of claim 27, wherein at least one of the bone fragments is at least partially dehydrated to mate with another bone fragment.